

FNKN01001/US

102/102

Abstract of the Disclosure

A surface position detection device that detects the surface position of a detection target surface (Wa) is provided with a projection system (1 ~ 6) provided to project a light flux onto the detection target surface from a diagonal direction and a light-receiving system (7 ~ 14) provided to receive a light flux having been reflected at the detection target surface. A means for light flux deflection (6, 7) which includes an even number of reflection surfaces to allow an incident light flux to exit at an angle not parallel to the incident light flux is provided, at least, either in the optical path of the projection system or the optical path of the light-receiving system. The surface position of the detection target surface is detected based upon an output from the light-receiving system. Any deterioration in the detection accuracy attributable to vibration from the outside, temperature fluctuations and the like can be successfully prevented, and the structure essentially frees the optical systems from any structural and positional restrictions imposed by the proximity of the detection target surface.

102/102 2001-04-11 12:53:00